1. HIV-3 retrovirus or variants of this virus having the essential morphological and immunological properties of any of the retroviruses deposited at the European Collection of Animal Cell Cultures (ECACC) under N° V88060301.

2. The purified retrovirus of claim 1, characterized in that said essential morphological and immunological properties are as follows:

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- The virus exhibits a tropism for T4 lymphocytes.
- The virus is cytotoxic for the lymphocytes that it infects.
- The virus has a diameter of approximately 120 nm.
- The virus possesses a magnesium dependent reverse transcriptase activity.
 - It can be cultivated in T4 receptor-bearing immortalized cell lines.
 - Lysates of the virus contain a p25 protein which is immunologically distinct from the p19 protein of HTLV-I by Western blot analysis.
 - Lysates of the virus contain a gp120 protein which is immunologically distinct from the gp110 protein of HTLV-I by Western blot analysis.
- The Yysate of the virus contains in addition a glycoprotein with a molecular weight of 40,000 45,000.
 - The genomic RNA of HIV-3 hybridizes neither with the sequences of HIV-1 nor with the sequences of HIV-2 under stringent hybridization conditions.

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3. The retrovirus of claim 1 or 2, characterized in that the nucleotide sequence of its genomic RNA which comprises an R region and an U3 region also comprises a nucleotide sequence corresponding with the following nucleotide sequence:

	10	20	30	40	50	60
10	CCCATGGAIT	TGAAGATACA	CATAAAGAAA	TACTGATGTG	CAACTTTCAT	AGATCICIAG
	70	80	90	100	/110	120
	GCAACACCCA	TGTTGCTATG	ATAACTCACC	CAGAGCTCTT	CACYACCAC	TAAAAACTGC
	130	140	150	160	170	180
	TGACCTGAAG	ATTGCTGACA	CTGTGGAACT	TTCCAGCAAA	CACTGCTGAC	ACTGCGGGGA
15	190	200	210	236	230	240
	CTTTCCAGTG	GGAGGGACAG	GGGGGGTTC	GGGAGTGGC	TAACCCTCAG	AAGCTGCATA
	250	260	270	280	290	300
	TAAGCAGCCG	CTTTCTGCTT	GIACCEGGIC	TOGETTAGAG	CACCAGGICT	GAGCCCGGGA
	310	320	330	340	350	360
	GCICCCIGGC	CTCTAGCTGA	ACCECTOST	TAACGCTCAA	TAAAGCTTGC	CTTGAGTGAG

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- 4. The retrovirus of any of claims 1 to 3 characterized in that its RNA virtually hybridizes neither with the Env gene and the LTR close to it, in particular not with the nucleotide sequence 8352-9538 of HIV-1, nor with the sequences of the Pol region of the HIV-1 genome under stringent conditions.
- 30 5. A composition comprising at least one antigen, in particular a protein or glycoprotein of HIV-3 retrovirus of any of claims 1 to 4.
- 5. The composition of claim 5 characterized by containing a total extract or lysate of said retrovirus.

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- 7. The composition of claim 5, characterized by containing at least one of the internal core proteins of said retrovirus, in particular p12, p16 or p26 having apparent molecular weights in the order of 12,000, 16,000 and 26,000 respectively.
- 8. The composition of claim 5, characterized by containing at least one of the envelope proteins of said retrovirus, in particular gp41 or gp120 having apparent molecular weights in the order of 40,000-45,000 and 120,000 respectively.
 - 9. An antigen providing a single band in polyacrylamide gel electrophoresis, said antigen comprising, in common with one of the purified antigens of HIV-3 retrovirus, an epitope that is recognized by serum of a patient carrying anti-HIV-3 antibodies.
- 10. A purified antigen having the immunological characteristics of one of the following proteins or glycoproteins of HIV-3: pl2, pl6, p26, gp41 and gp120.
 - 11. The antigen of claim 10 having the aminoacid sequence, or a part of said sequence, of the p12 protein obtained by subjecting the protein mixture produced by HIV-3 to gel electrophoresis and isolating the p12 protein in a manner known per se.
- 12. The antigen of claim 10 having the aminoacid sequence, or a part of said sequence, of the p16 protein obtained by subjecting the protein mixture produced by HIV-3 to gel electrophoresis and isolating the p16 protein in a manner known per se.
 - 13. The antigen of claim 10 having the aminoacid sequence, or a part of said sequence, of the p26 protein obtained by subjecting the protein mixture produced by HIV-3 to gel electrophoresis and isolating the p26 protein in a manner known per se.

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14. The antigen of claim 10 having the aminoacid sequence, or a part of said sequence, of thegp41 protein obtained by subjecting the protein mixture produced by HIV-3 to gel electrophoresis and isolating the gp41 protein in a manner known per se.

15. The antigen of claim 10 having the aminoacid sequence, or a part of said sequence, of thegp120 protein obtained by subjecting the protein mixture produced by HIV-3 to gel electrophoresis and isolating the gp120 protein in a manner known per se.

retrovirus in a biological liquid, such as a serum or spinal fluid, in particular for the diagnosis of a potential or existing ARC or AIDS caused by said HIV-3 retrovirus, characterized by contacting body fluid of a person to be diagnosed with a composition of any of claims 5 to 8 or with an antigen of any claims 5 to 15 and detecting the immunological conjugate formed between said anti-HIV-3 antibodies and the antigen(s) used.

detection of said immunological conjugate is achieved by reacting said immunological conjugate with a labeled reagent selected from antihuman immunoglobulin-antibodies or bacterial A protein or G protein and detecting the complex formed between said conjugate and said reagent.

18. A kit for the detection of anti-HIV-3-antibodies in a biological fluid, comprising

a composition as defined in any of claims 5 to 8 or an antigen as defined in any of claim 9 to 15, and means for detecting the immunological complex formed.

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- 19. The kit of claim 18, characterized in that said means for detecting said immunological complex comprise antihuman immunoglobulin(s) or protein A and means for detecting the complex formed between the anti-HIV-3 antibodies contained in the detected immunological conjugate.
 - 20. An immunogenic composition containing an envelope glycoprotein of HIV-3 retrovirus, in particular gp41 or pg120, or a part of said glycoprotein, in combination with a pharmaceutically acceptable vehicle suitable for the constitution of vaccines effective against HIV-3.
- 21. The composition of claim 20, characterized by containing at least part of a glycoprotein comprising the protein backbone of the envelope protein. or a part thereof, as defined in any of claims 14 to 15.
- 22. Monoclonal antibodies characterized by their ability to specifically recognize one of the antigens as defined in any of claims 11 to 15 in particular monoclonal antibodies specifically raised against said antigens.
 - 23. The secreting hybridomas of the monoclonal antibodies of claim 22.
 - 24. Nucleic acids, optionally labeled, derived in part at least of RNA of HIV-3 retrovirus or of variants thereof.
- 25. The nucleic acid of claim 24, characterized by containing at least part of the cDNA corresponding with the entire genomic RNA of HIV-3 retrovirus.
 - 26. The nucleic acid of claim 24 containing the nucleotide sequence as identified in claim 3.
 - 27. The nucleic acids of claim 24—characterized by containing nucleotide sequences coding for at least part of the aminoacid sequences of proteins as defined in any of claims 11 to 13.

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28. The nucleic acids of claim 24, characterized by containing nucleotide sequences coding for at least part of the aminoacid sequences of glycoproteins as defined in any of claims 14 to 15.

29. The nucleic acids of any of claims 24 to 28. characterized by being formed into a recombinant nucleic acid comprising a nucleic acid from a vector having said cDNA, or a part of said cDNA, inserted therein.

30. The recombinant nucleic acid of claim 29 characterized by being labeled.

31. A process for the detection of HIV-3 retrovirus or of its RNA in a biological liquid or tissue, characterized by contacting nucleic acids contained in said biological liquid or tissue with a probe containing a nucleic acid according to any of claims 25 to 30 under stringent hybridization conditions, washing the hybrid formed with a solution preserving said stringent conditions, and detecting the hybrid formed.

32. A process for the production of HIV-3 retrovirus characterized by culturing human T4 lymphocytes, or permanent cell lines derived therefrom carrying the T4 phenotype, with lymphocytes or cell lines that have previously been infected with an isolate of HIV-3 retrovirus, as well as recovering and purifying the retrovirus from the culture medium.

33. A process for the production of antigens of HIV-3 retrovirs characterized by lysing the retrovirus and recovering the lysate containing said antigens.

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34. A process for the production of any of the proteins or glycoproteins p12, p16, p26, gp41 and gp120 as defined hereinbefore, or of a part thereof, characterized by inserting the corresponding nucleic acid sequence in an expression vector, transforming a host with said vector, culturing the transformed host as well as recovering and purifying the expressed protein.

35. A process for the production of a hybridization probe for the detection of the RNA of HIV-3 retrovirus, characterized by inserting a DNA sequence, particularly of any of claims 24 to 29 in a cloning vector by in vitro recombination, cloning the modified vector obtained in a suitable cellular host, and recovering the hybridization probe.

36. A method for detecting antigen of HIV-3, characterized by coating a surface with an immunoglobulin fraction raised against HIV-3, bringing a body or culture fluid to be analyzed into contact with the immunoglobulins, and detecting the complex formed between the immunoglobulins and the antigen.